

AN: PAT 2000-013515
TI: Compression device for ultrasonic or radiographic
mammography
PN: WO9956623-A1
PD: 11.11.1999
AB: NOVELTY - The object to be examined in compressed between
compression plates with the examination space located between
the plates. The entrance to the examination space is covered by
an elastic foil. Interior space is filled with liquid which has
size and form altered by foil by displacement of liquid.
DETAILED DESCRIPTION - The device has two compression plates
positioned at a certain distance apart by adjustment device.
The examination space is located between the two plates and is
accessible via an opening (14) for the breast (3) to be
examined. A size-variable wall (11A) is connected to the plates
at the side away from the entrance opening so that the entrance
opening is bordered by the plates and the size variable wall
between the plates. The wall is liquid imperviously connected
with the plates and has bellow walls. The entrance opening is
covered, liquid imperviously by an elastic foil (4) which
provides a flat surface when stretched. Liquid tight interior
space (5) has its form and size varied by the foil. The foil is
connected with a bar element (26) to provide space to fit the
breast between the compression plates and to match the
examination space to the breast. The bar element pulls (10B)
the foil from the entrance opening into the interior space to
displace an amount of liquid from the interior space and so
provide a large enough examination space (2) for the breast.
After positioning, compression is initiated by changing the
amount of liquid in the interior space so the elastic foil is
completely in contact with breast surface. The bar provides a
link leading into the foil with a vacuum pump (28) connected to
the outer end of the link.; USE - Compression device for use in
ultrasonic or radiographic mammogram. ADVANTAGE - Prevents
formation of artifacts, minimizes border surfaces. DESCRIPTION
OF DRAWING(S) - The drawing shows a section of the bell shaped
foil with object to be examined. Breast 3 Elastic foil 4
Interior space 5 Size variable wall 11A Bar element 26 Vacuum
pump 28
PA: (ASTA) ASTA MEDICA AG; (RICH/) RICHTER K;
IN: RICHTER K; BECKERS T; BOEHMER F D; DE WALL S; HUFISKY H;
MAHBOOBI S; PONGRATZ H; POPP A; TELLER S; UECKER A;
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